FIG.1

Malignant Breast
96102003G H9C65
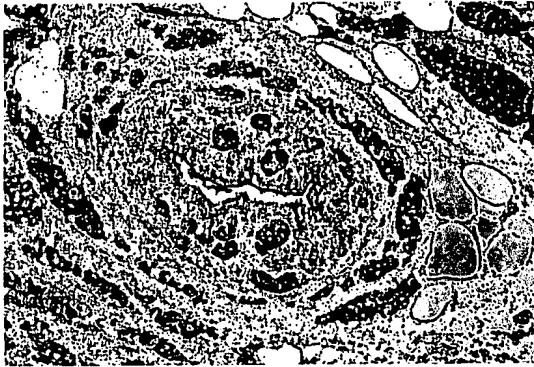

FIG.2A

Malignant Breast
9609C033R H9C65
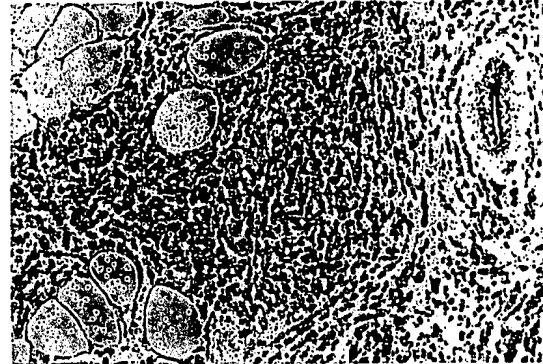

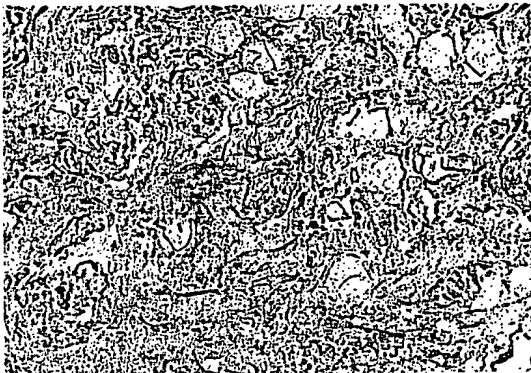## FIG.2B

Normal Breast.
9712C030G H9C65

FIG.2C

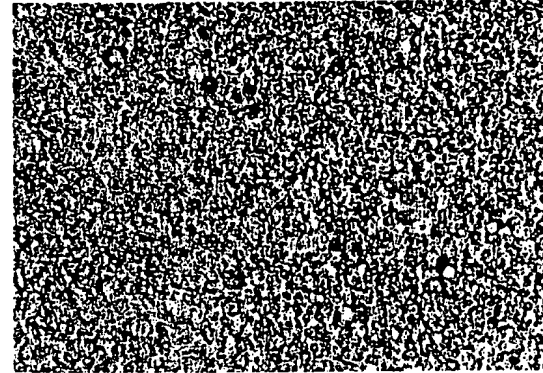MB8 Cell Line
H9C65

FIG.2D

Malignant Breast
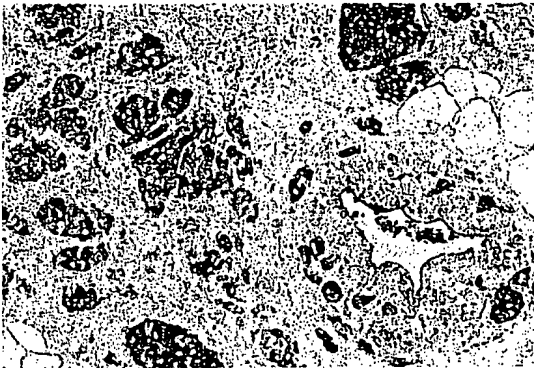96102003G H95C30

FIG.3A

Malignant Breast
9609C033R H95C30
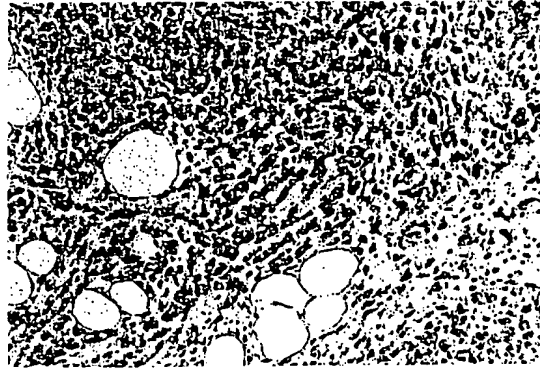

FIG.3B

Normal Breast
9712C030G H95C30

FIG.3C

MB8 Cell Line
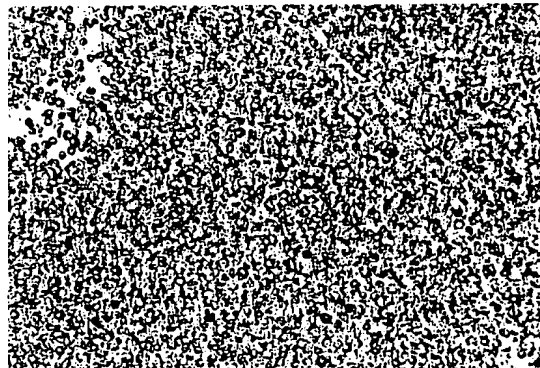H95C30

FIG.3D

1   2   3   4   1

anti-mycMAb

FIG.4A
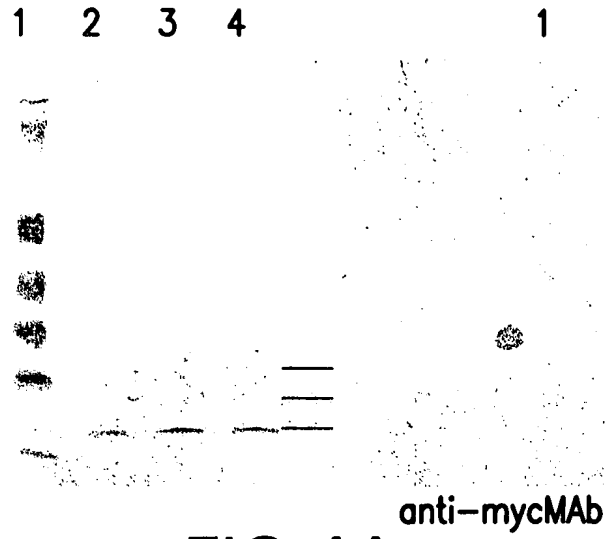
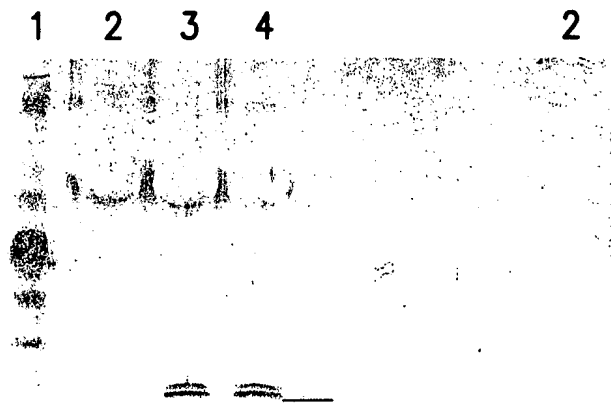1   2   3   4   2

anti-BU101 PAb 10923

FIG.4B

1   2   3   4   3

anti-Mam PAb 10931

FIG.4C

anti-myc MAb

FIG.5A

FIG.5B

1	2	3	4
1 2	1 2	1 2	1 2

10918 10923 11543 10931

FIG.6A
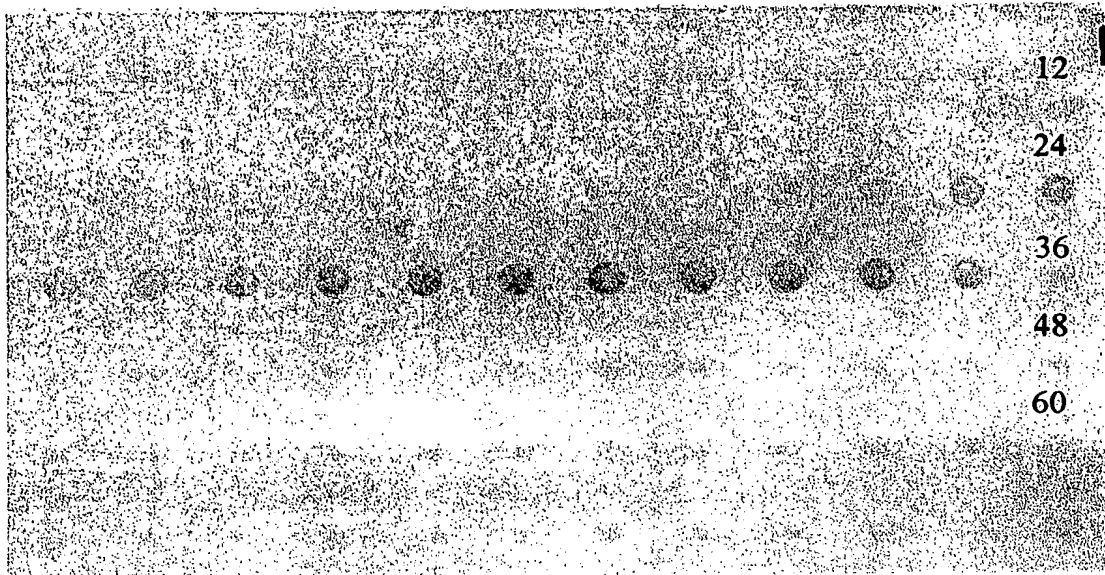
5	6	7	8
1 2	1 2	1 2	1 2

H85   H68   H111   myc
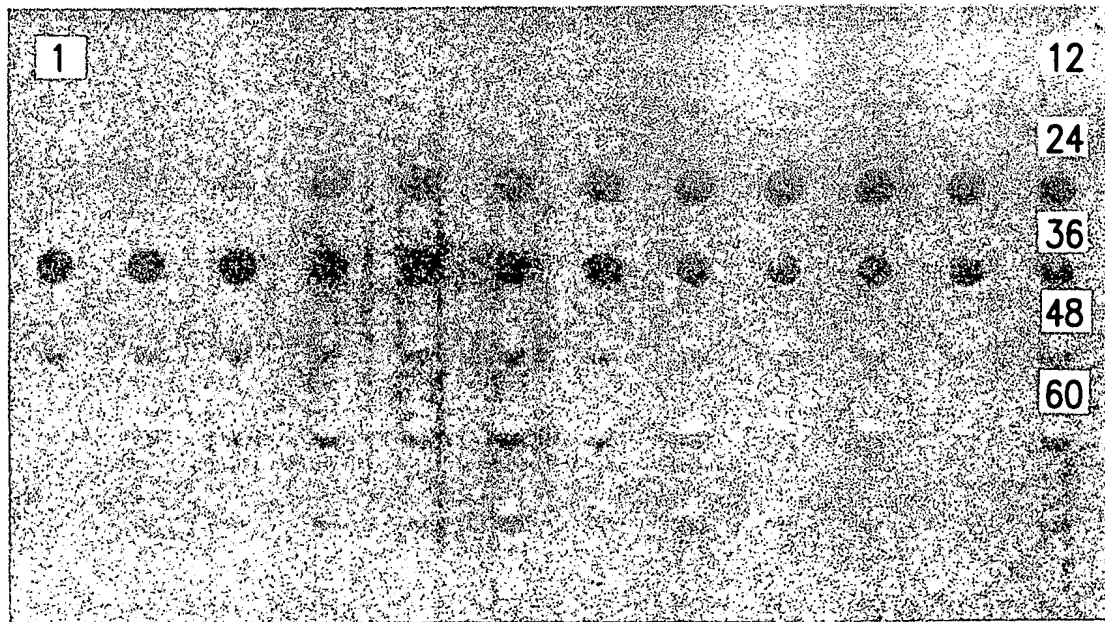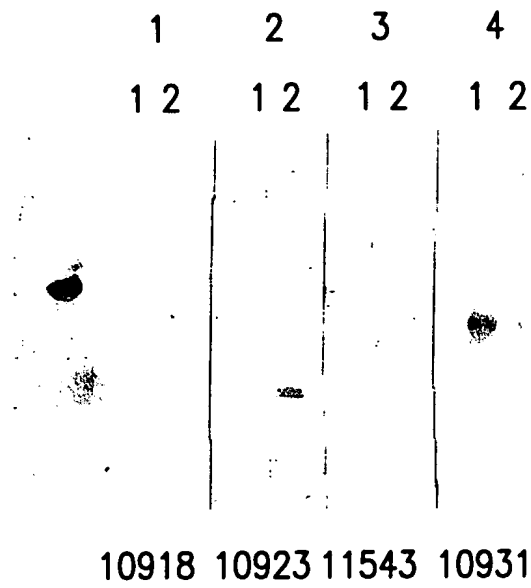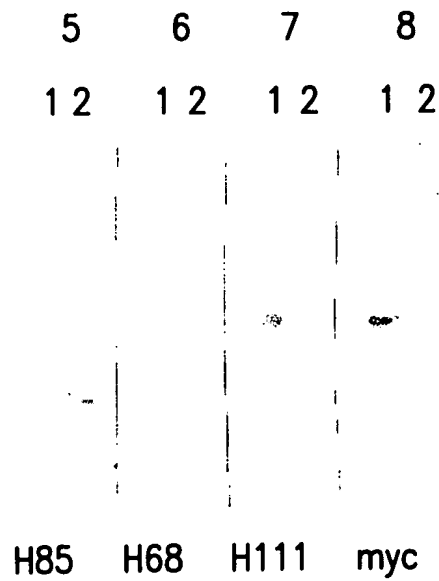
FIG.6B
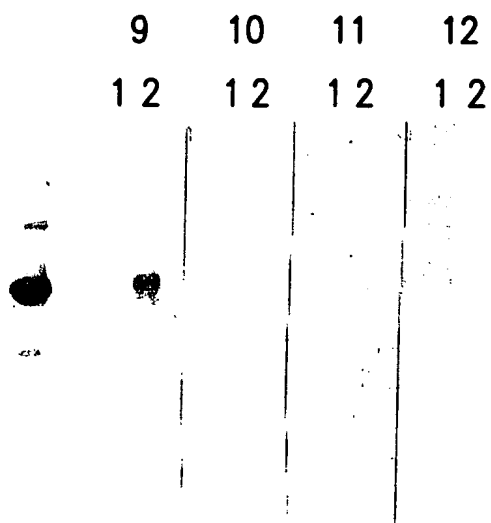
9   10   11   12
1 2   1 2   1 2   1 2

10918 10923 11543 10931
Polyclonal Antisera, 1:5000

FIG.6C
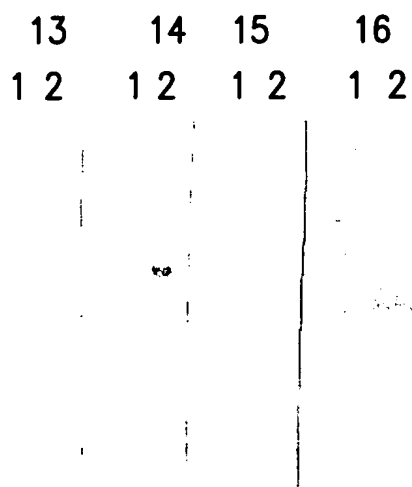
13   14   15   16
1 2   1 2   1 2   1 2

H85   H68   H111   myc
Monoclonal Antibodies 1:50

FIG.6D

1   2

FIG.7

FIG.8A

FIG.8B

LINEAR FIT FOR DATA1_VOLUME ON LINEARIZED SCALES.
YSCALE(Y) = A + B* XSCALE(X)
WHERE SCALE() IS THE CURRENT AXIS SCALE FUNCTION.

PARAMETER	VALUE	ERROR
A	32.56311	1.76851
B	-3.95593	0.35124

R	SD	N	P
-0.97716	0.55985	8	<0.0001

FIG.9

1

50

12

24

36

48
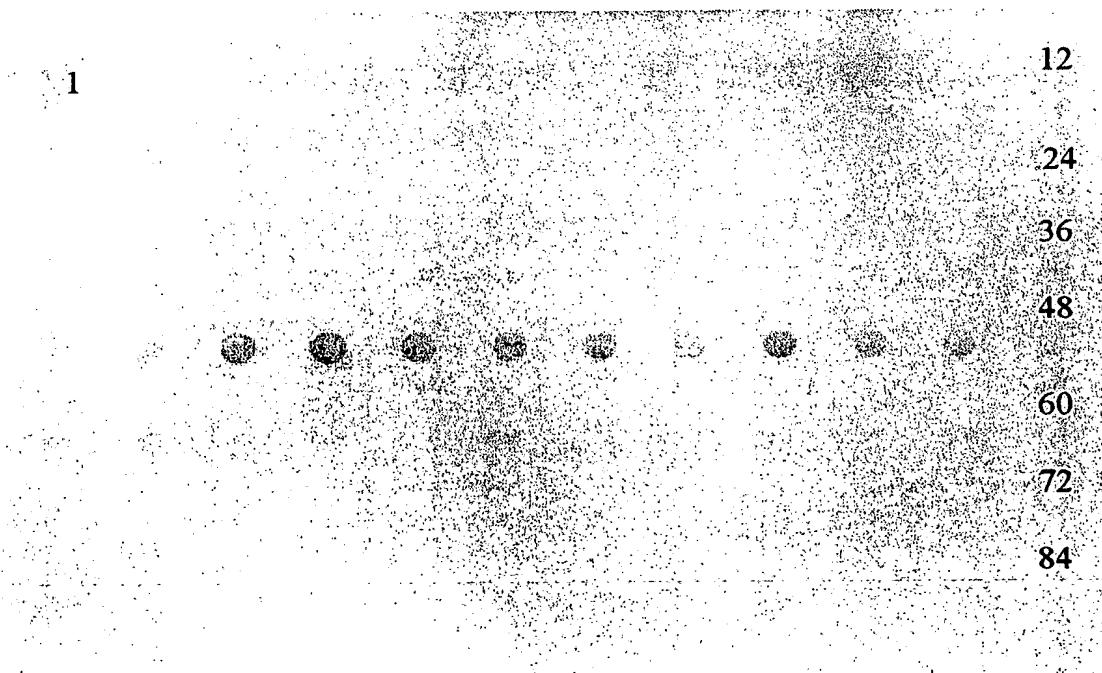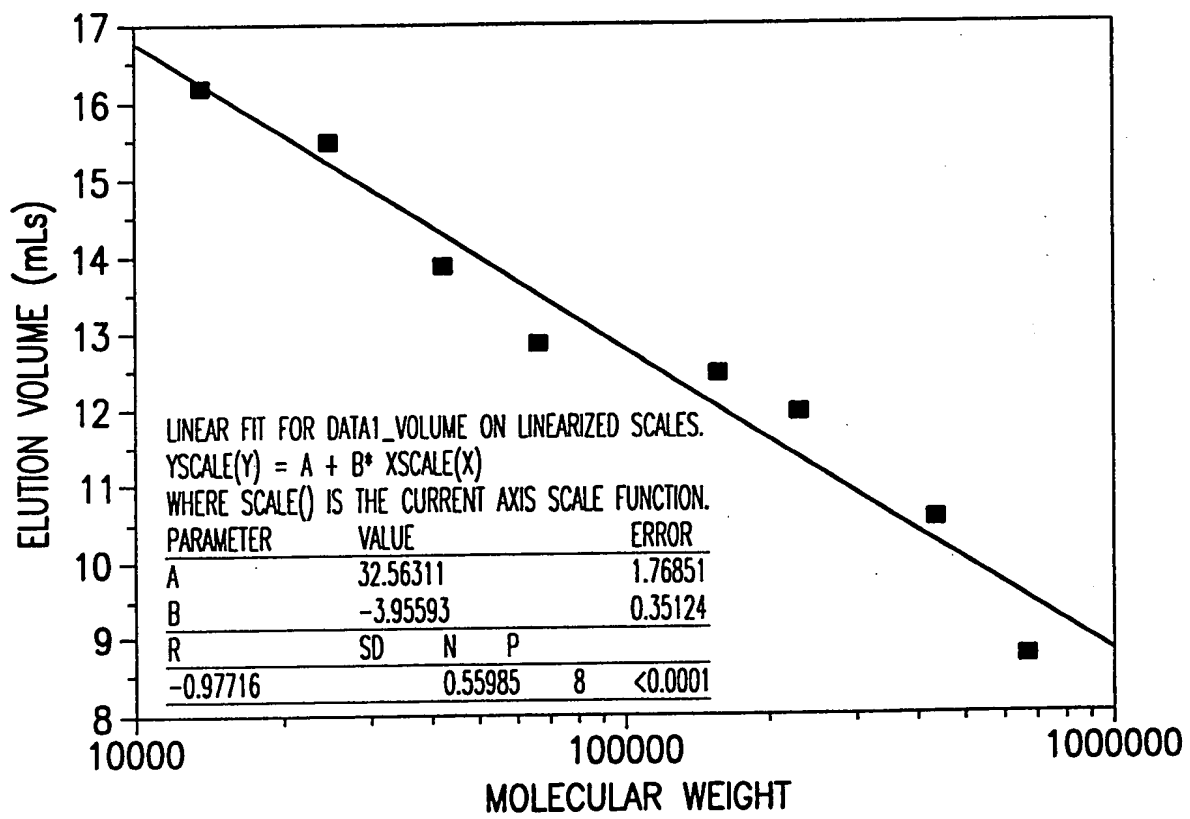
FIG.10

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
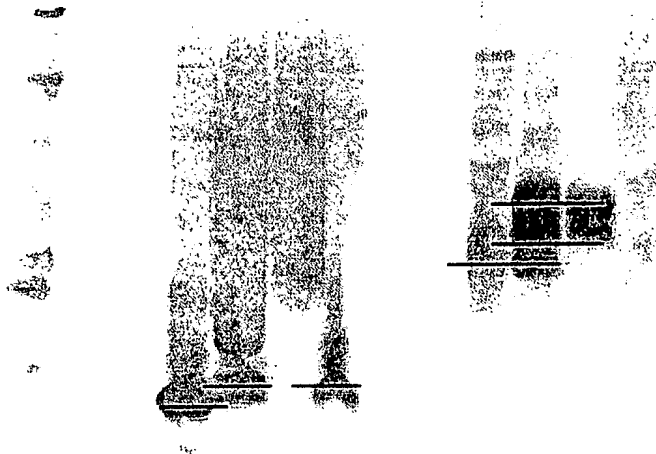
FIG.11A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
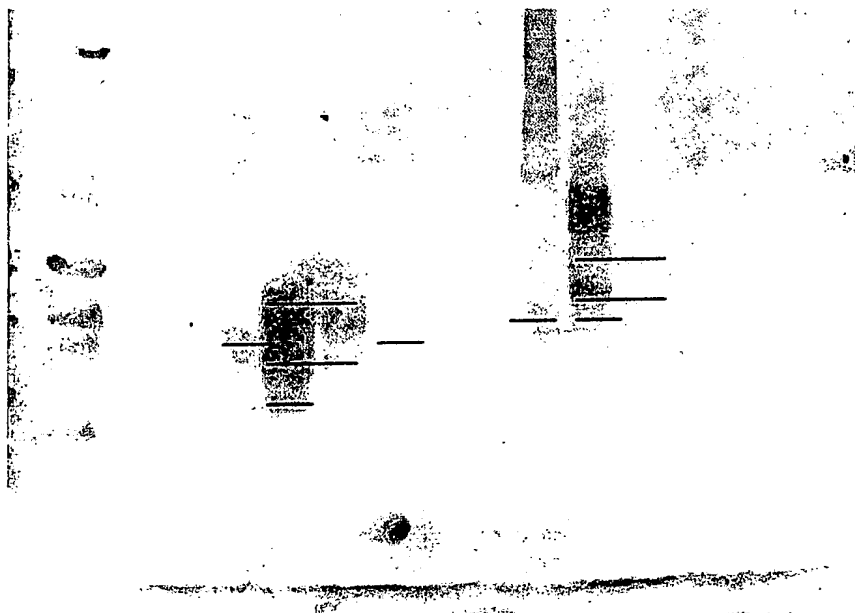
FIG.11B
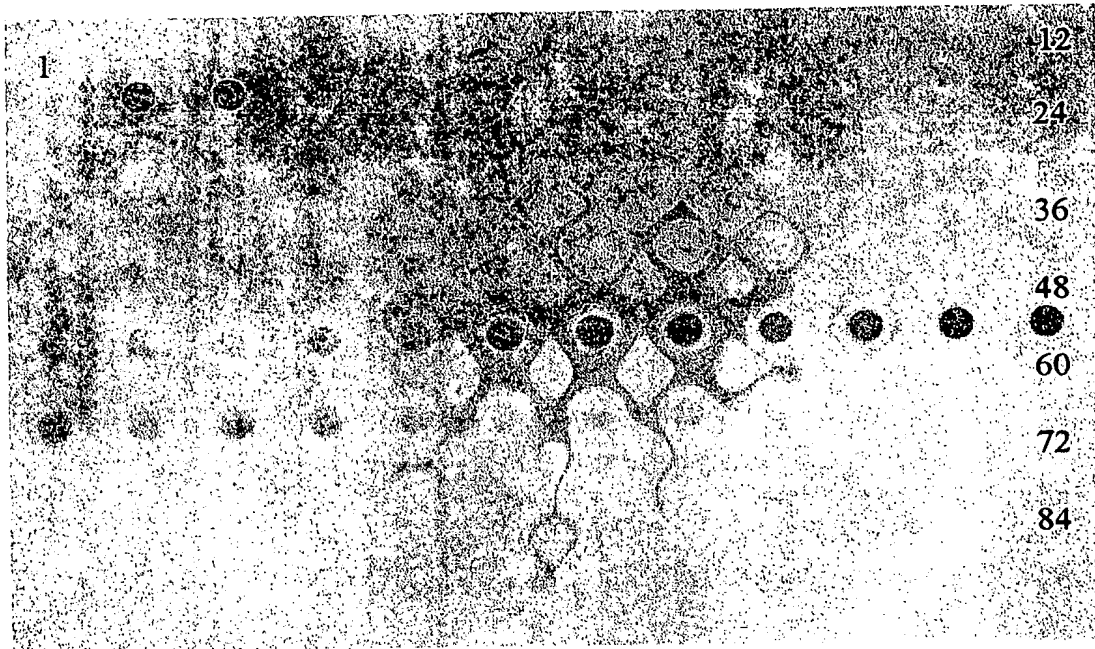
anti–BU101.3, 10923, 1:5000
sample reduced and boiled

FIG.12A
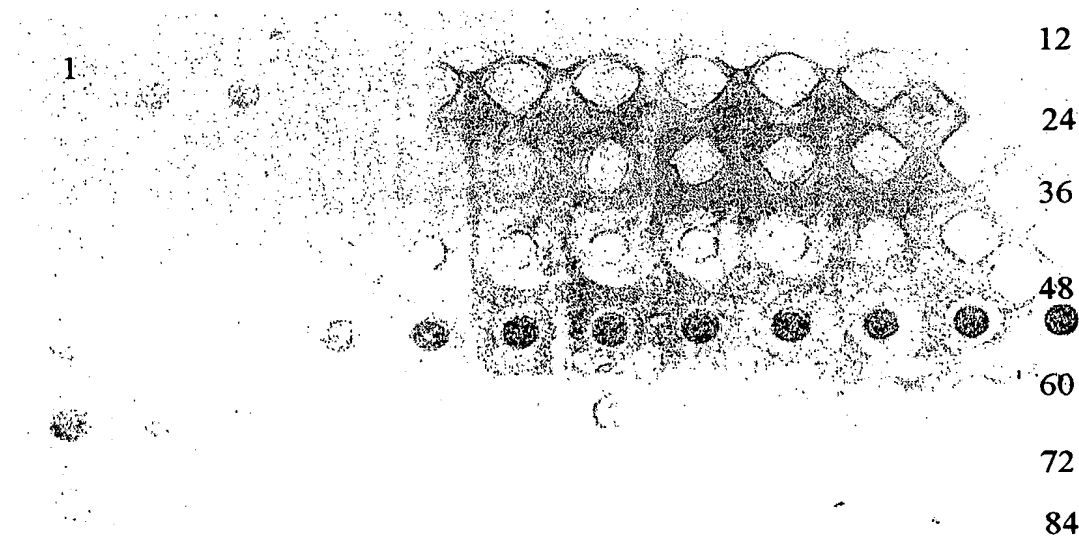
anti–MAM.1, 10931,1:5000
sample reduced and boiled

FIG.12B

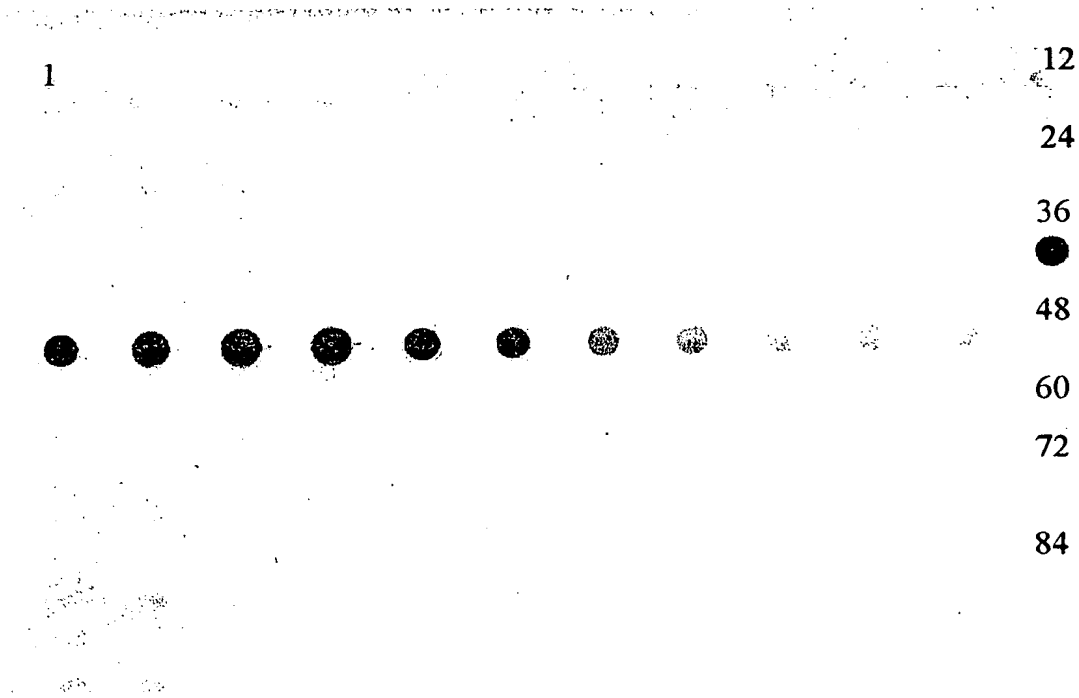Reduced   Not Reduced
42 43 44 45 46 47 48 42 43 44 45 46 47 48
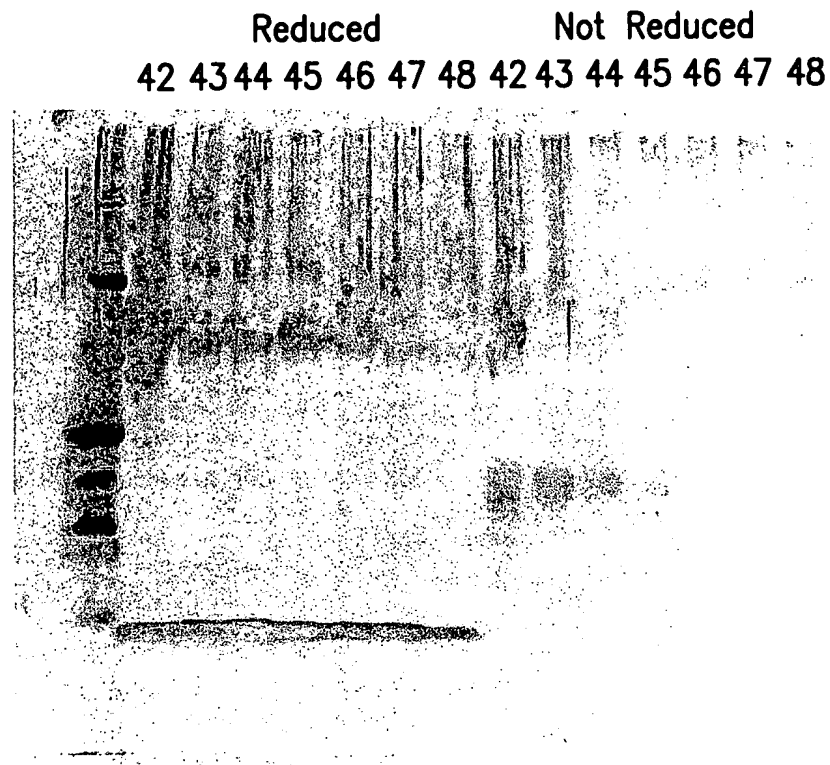
Polyclonal Antibody 10923
anti−BU101.3

FIG.13A

Reduced   Not Reduced
42 43 44 45 46 47 48 42 43 44 45 46 47 48

Polyclonal Antibody 10931
anti-MAM.1

FIG.13B
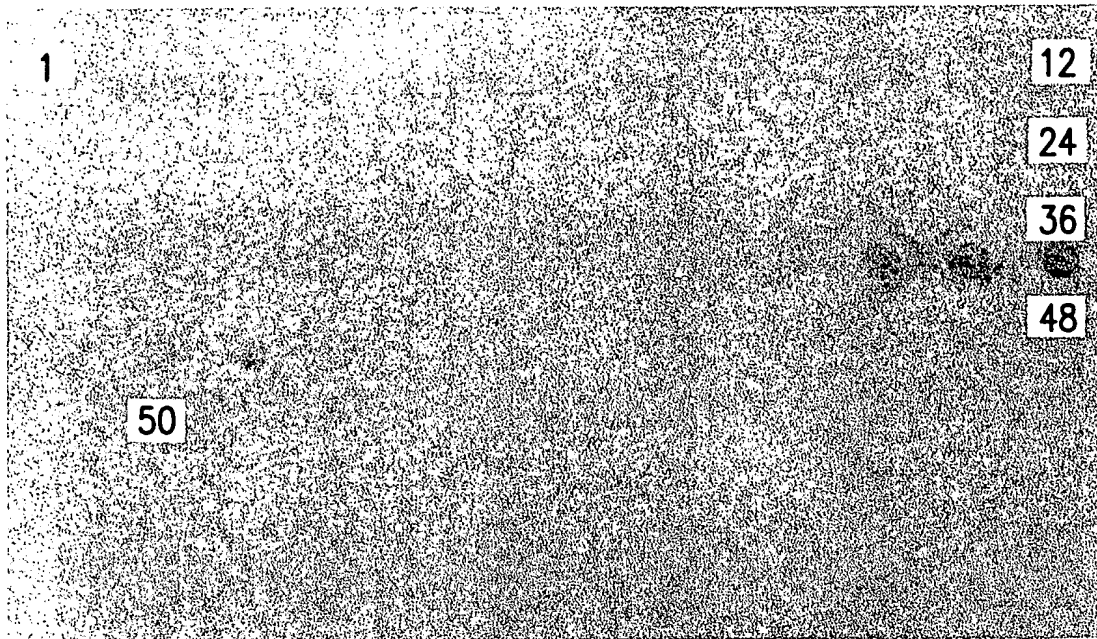
anti-BU101 polyclonal 10923

FIG.14A
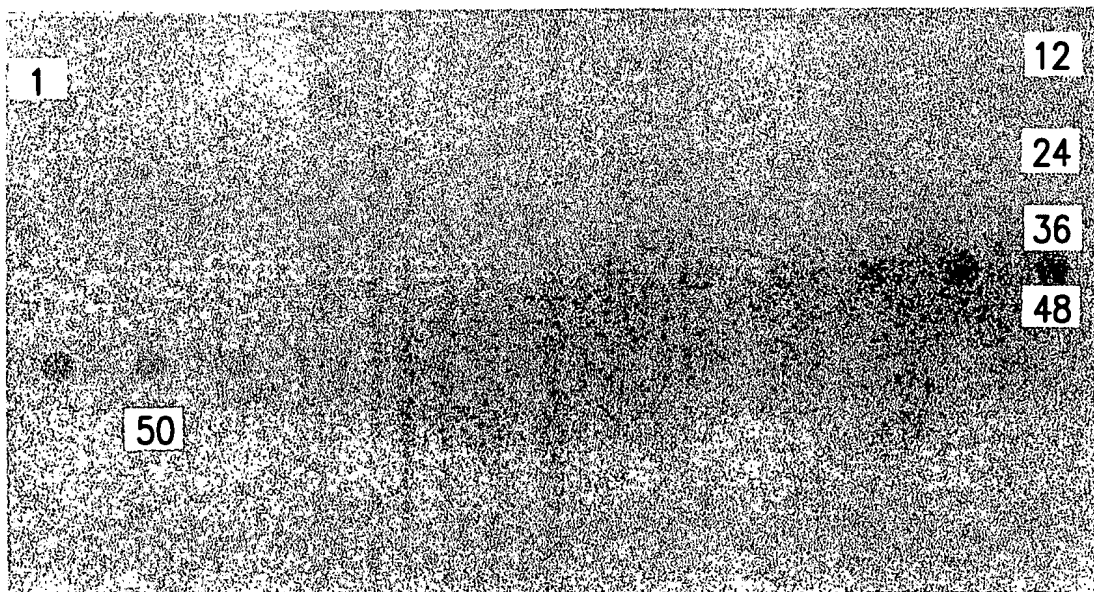
anti-Mam polyclonal

FIG.14B
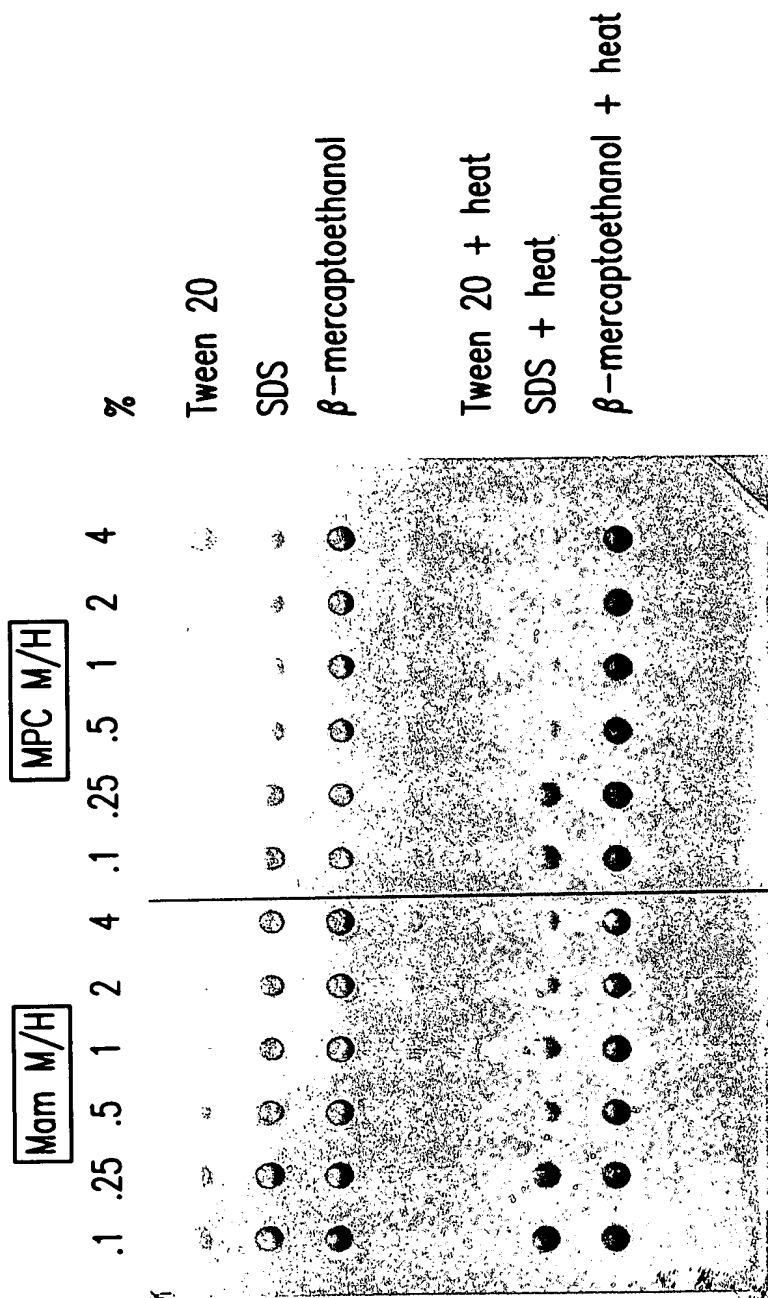
FIG.15

anti-myc, 1:5000

```
Met Lys Leu Ser Val Cys Leu Leu Leu Val Thr Leu Ala Leu Cys Cys
 1               5                   10                  15
Tyr Gln Ala Asn Ala Glu Phe Cys Pro Ala Leu Val Ser Glu Leu Leu
                20                  25                  30
Asp Phe Phe Phe Ile Ser Glu Pro Leu Phe Lys Leu Ser Leu Ala Lys
            35                  40                  45
Phe Asp Ala Pro Pro Glu Ala Val Ala Ala Lys Leu Gly Val Lys Arg
        50                  55                  60
Cys Thr Asp Gln Met Ser Leu Gln Lys Arg Ser Leu Ile Ala Glu Val
65                  70                  75                  80
Leu Val Lys Ile Leu Lys Lys Cys Ser Val
                85                  90
```

FIG.16

ASSEMBLY OF BS106 FROM INDIVIDUAL EXPRESSED TAGS

1662885
1663766
1004376
1297253
1665381
967027
893988
1297418
1661289
1301033
1664154
896764
969039
897376
895584
1297452
1297587
1298034
966077
1210094
1209814

1 32   210 248 285 322   482

FIG.17

>BS106 CONSENSUS

```
CGGCTCGAGCTCTTAGGCTTTGAAGCATTTTTGTCTGTGCTCCCT
GATCTTCAGGTCACCACCATGAAGTTCTTAGCAGTCCTGGTACTC
TTGGGAGTTTCCATCTTTCTGGTCTCTGCCCAGAATCCGACAACA
GCTGCTCCAGCTGACACGTATCCAGCTACTGGTCCTGCTGATGAT
GAAGCCCCTGATGCTGAAACCACTGCTGCTGCAACCACTGCGACC
ACTGCTGCTCCTACCACTGCAACCACCGCTGCTTCTACCACTGCT
CGTAAAGACATTCCAGTTTTACCCAAATGGGTTGGGGATCTTCCG
AATGGTAGAGTGTGTCCCTGAGATGGAATCAGCTTGAGTCTTCTG
CAATTGGTCACAACTATTCATGCTTCCTGTGATTTCATCCAACTA
CTTACCTTGCCTACGATATCCCCTTTATCTCTAATCAGTTTATTT
TCTTTCAAATAAAAAATAACTATGAGCAACATAAAAAAAAAAAAA
```
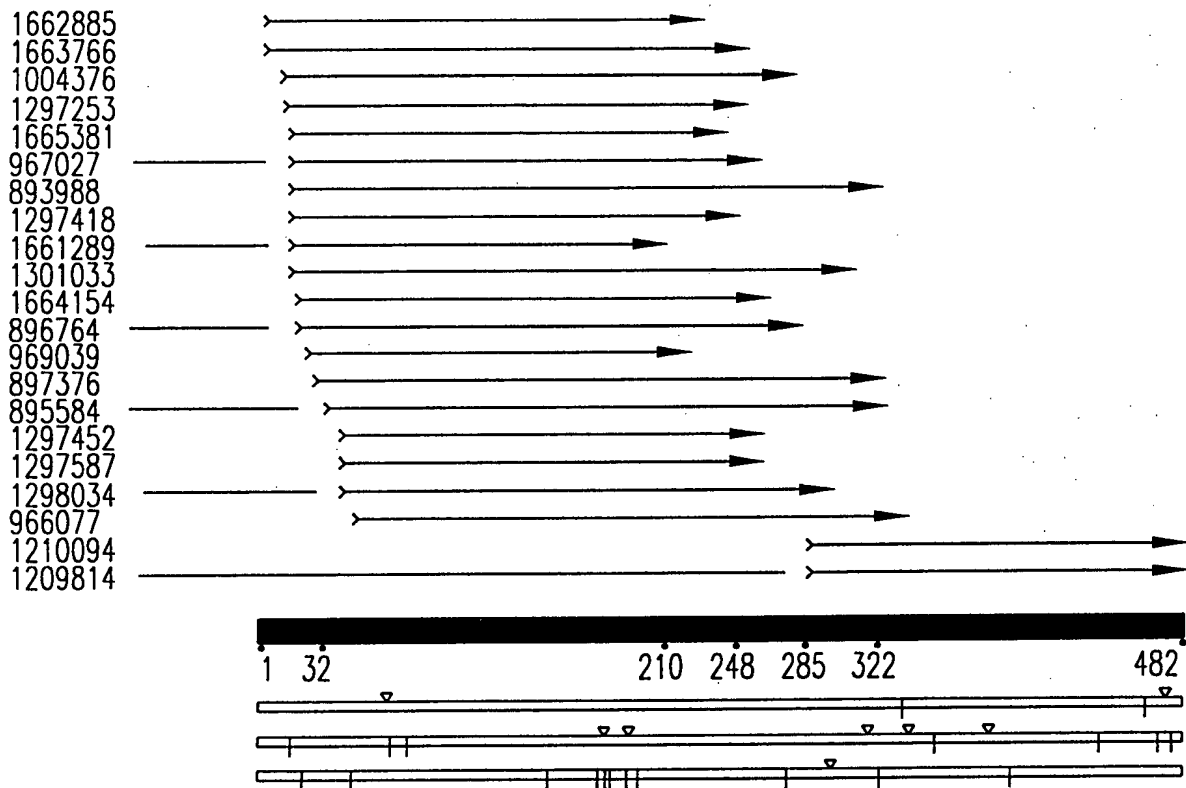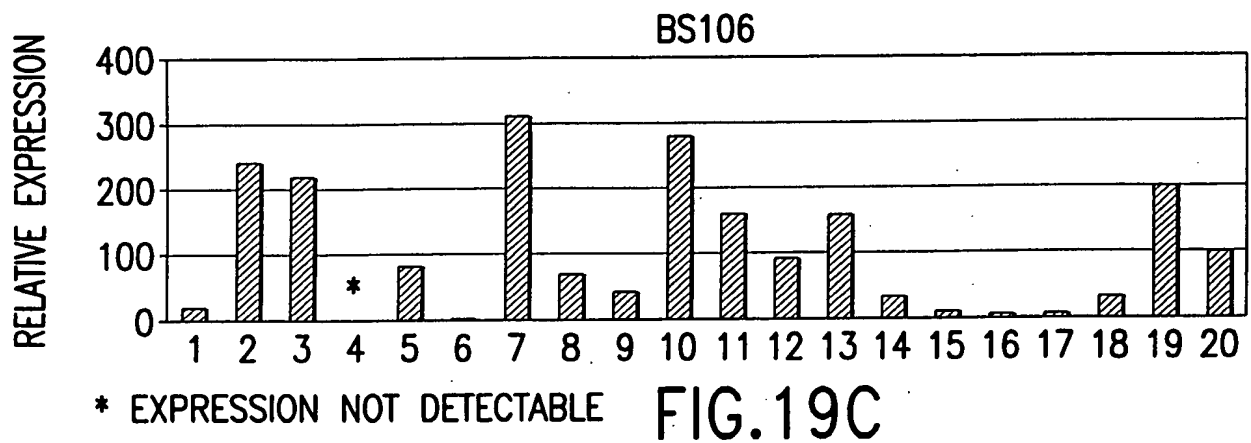
FIG.18A

>BS106 TRANSLATION

```
MKFLAVLVLLGVSIFLVSAQNPTTAAPADTYPATGPADDEAPDAE
TTAAATTATTAAPTTATTAASTTARKDIPVLPKWVGDLPNGRVCP
```

FIG.18B

BU101

* EXPRESSION NOT DETECTABLE

FIG.19A

MAMMAGLOBIN

* EXPRESSION NOT DETECTABLE

FIG.19B

BS106

* EXPRESSION NOT DETECTABLE

FIG.19C
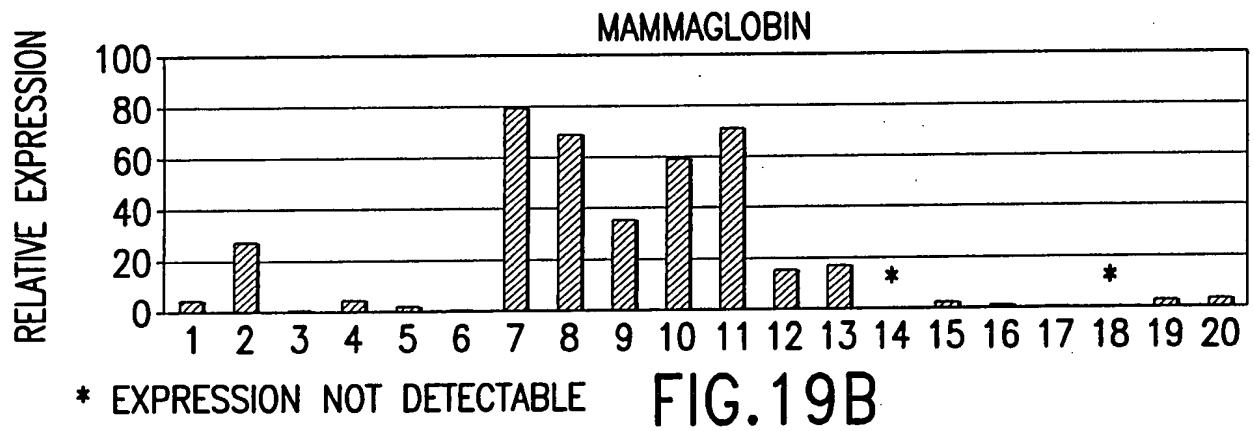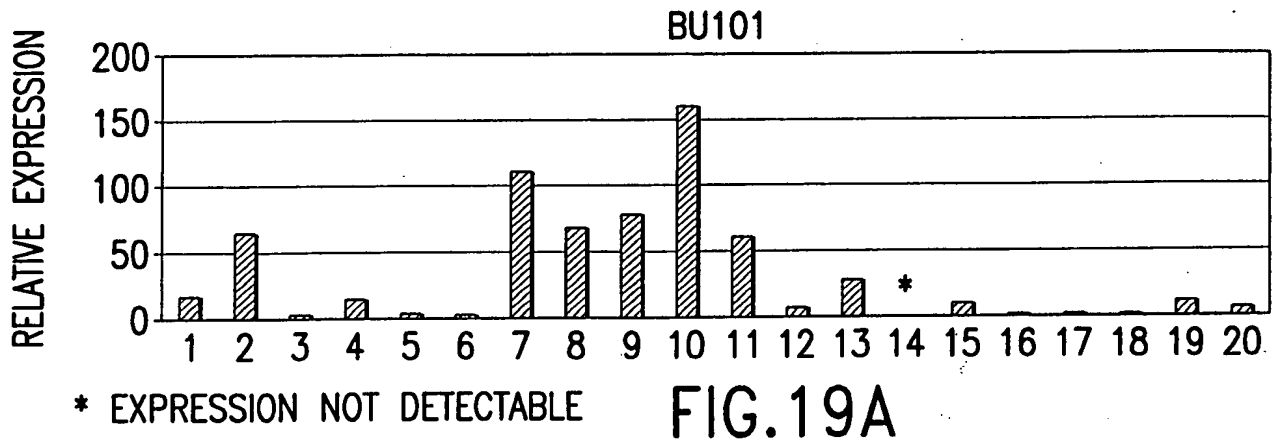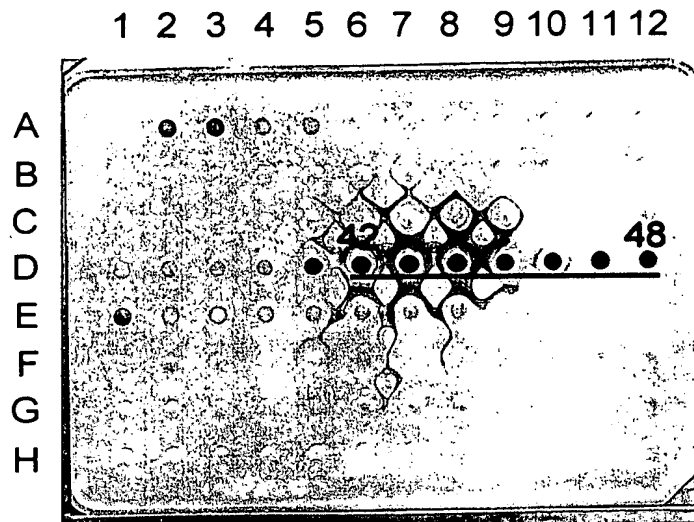
Anti-BU101.3 Polyclonal

FIG.20A

Anti-Mam.1 Polyclonal

FIG.20B

208 kD →
105 kD →
53 kD →
34 kD →
23 kD →
17 kD →
13 kD →
7 kD →

MamBu →

← BU101

Anti-BU101.3 Polyclonal

FIG.20C

208 kD →
105 kD →
53 kD →
34 kD →
23 kD →
17 kD →
13 kD →
7 kD →

MamBu →

← Mam
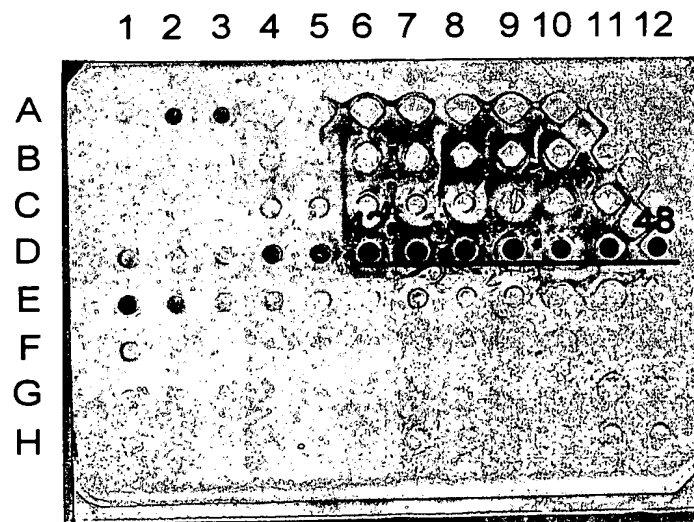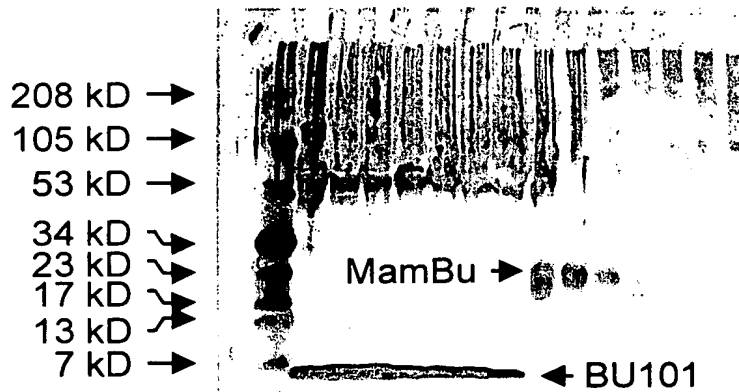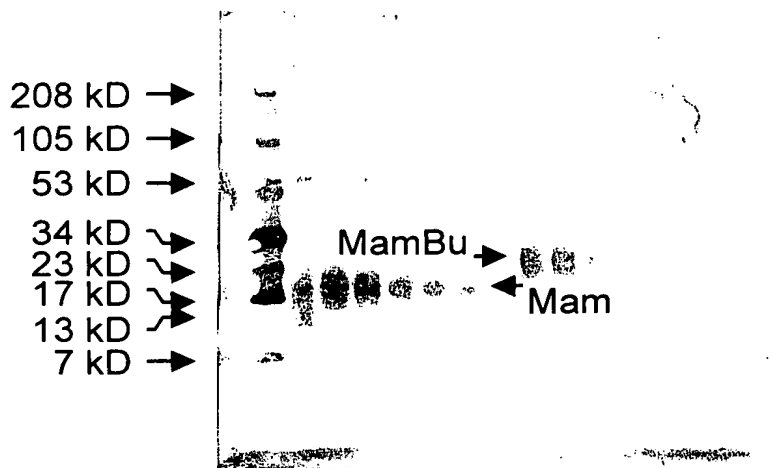
Anti-Mam.1 Polyclonal

FIG.20D

Correlations Between Marker Expression and Clinical and Molecular Parameters

	BU101	BS106	Mammaglobin	CK19	
T Stage	0.003 (NS)	-0.13 (NS)	-0.03 (NS)	-0.03 (NS)	N=95
Grade	-0.14 (NS)	0.12 (NS)	0.03 (NS)	0.06 (NS)	N=90
N Stage	0.05 (NS)	0.06 (NS)	0.04 (NS)	0.19 (NS)	N=85
Nodes +	-0.02 (NS)	0.01 (NS)	0.05 (NS)	0.23 (NS)	N=85
ER	-0.18 NS	-0.10 (NS)	-0.23 (p=0.02)	-0.18 (NS)	N=99
PR	-0.18 (NS)	-0.10 (NS)	-0.23 (p=0.02)	-0.18 (NS)	N=99
HER2	-0.12 (NS)	0.36 (p=0.003)	0.11 (NS)	0.02 (NS)	N=67
P53	-0.19 (NS)	-0.16 (NS)	-0.02 (NS)	-0.14 (NS)	N=77
BU101	-------	-0.05 (NS)	0.37 (p=0.0001)	-0.04 (NS)	N=101
BS106	-0.05 (NS)	------	0.004 (NS)	0.07 (NS)	N=101
Mamm	0.37 (p=0.0001)	0.004 (NS)	------	0.07 (NS)	N=101

Pearson product moment correlations were calculated between each pair of variables. The only significant relationships observed are bolded and have included p values. NS=not significant

FIG.21